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THE MOSSES OF WASHINGTON COUNTY, PENNSYLVANIA¹

N. M. GRIER

Some years ago the Herbarium of Washington and Jefferson College was enriched by the presentation of a collection of mosses made by Professors A. Linn and A. Simonton, then of the Faculty. Included in the gift were representative species of the mosses of Washington County, Pa. Professors Linn and Simonton published very little of their extended observations, but circulated among their friends a printed preliminary list of the mosses found in this region.

A co-author of this list, Professor J. S. Simonton, Emeritus, Washington and Jefferson College, before his death gave me permission to revise it and place it in publication.² This was especially desirable both on account of developments in nomenclature and because mistakes in identification and locality in the original list had evidently been copied in Porter's Catalogue,³ and from thence into Jennings' Manual of the Mosses of Western Pennsylvania.

Revision has been accomplished with the aid of Jennings' Manual,⁴ following in general the same taxonomic standard—that of Warnstorf, Ruhland and Broas given in Engler and Prantl's *Die Natuerlichen Pflanzenfamilien*, Teil I, Abteilung III. While Professors Linn and Simonton rarely collected in the same localities of Washington County as did Dr. Jennings, the latter found many species which they did. The species starred (*) in the following list represent those published by Jennings alone as occurring in Washington County; the other species listed are substantiated by specimens in the Herbarium of the College.

ORDER BRYALES

DICRANACEAE

- Pleuridium subulatum* (Huds.) Rabenh.
- Pleuridium alternifolium* (Dicks., Kaulf.) Rabenh.
- Ditrichum pallidum* (Schreb.) Hampe.
- Ceralodon purpureus* (L.) Brid.
- Dicranella heteromalla* (Dill.) Schimp.
- Dicranella varia* (Hedw.) Schimp.
- Dicranum undulatum* Ehrh.
- Dicranum scoparium* (L.) Hedw.
- Dicranum flagellare* Hedw.
- Dicranum longifolium* Ehrh.

¹ Contribution No. 72 (E. Linton and N. M. Grier), from the Biological Laboratory, Washington and Jefferson College.

² James Snodgrass Simonton was born in Dauphin County, Pennsylvania March 20, 1829. He was educated at the Harrisburg Academy and at Princeton, graduating with the class of 1852. After teaching in the South he graduated from Princeton Theological Seminary in 1857, following which he traveled for three years in South America and Europe. In 1868 he joined the faculty of Washington and Jefferson College, becoming Professor of the French Language and Literature. He retired from the faculty in 1900, and was made Emeritus Professor by the Trustees. Professor Simonton was a teacher of unusual ability and a man of pleasant personality and high scholarship. His death occurred on December 27, 1921.

³ Catalogue of the Bryophyta and Pteridophyta found in Pennsylvania. Porter, T. C. 1904.

⁴ Manual of Mosses of Western Pennsylvania. Jennings, O. E. 1913.

LEUCOBRYACEAE

Leucobryum glaucum (L.) W. P. Schimp.

Leucobryum albidum (Brid.) Lindb.

FISSIDENTACEAE

Fissidens hyalinus Hook. & Wils.

Fissidens incurvus var. *minutulus* (Sull.) Aust.

Fissidens adiantoides (L.) Hedw.

Fissidens taxifolius (L.) Hedw.

Fissidens subbasilaris Hedw.

TORTULACEAE

Weisia viridula (L.) Hedw.

Toriella tortuosa (L.) Limpr.

Barbula fallax Hedw.

Barbula unguiculata (Huds.) Hedw.

GRIMMIACEAE

Grimmia apocarpa (L.) Hedw.

Grimmia conferta Funck.

ORTHOTRICHACEAE

Drummondia clavellata Hook.

Orthotrichum sordidum Sull.

Orthotrichum ohioense Sull.

Ulota crispa (L.) Brid.

FUNARIACEAE

Physcomitrium turbinatum (Rich.) Brid.

Funaria flavicans Rich.

Funaria hygrometrica (L.) Sibth.

SCHISTOSTEGACEAE

Leptobryum pyriforme (L.) Wils.

* *Pohlia nutans* (Schreb.) Lindb.

BRYACEAE

Mniobryum albicans (Wahl.) Limpr.

Rhodobryum roseum (Weis.) Limpr.

Bryum caespiticium (L.)

Bryum argenteum (L.)

Bryum capillare (L.)

* *Rhodobryum ontariense* (Kindb.) Paris.

MNIACEAE

* *Mnium marginatum* (Dicks.) Beauv.

Mnium rostratum Schrad.

Mnium cuspidatum (L.) Leyss.

* *Mnium affine* var. *ciliare* (Greville) C. Muell.

* *Mnium stellare* Reich.

AULACOMNIACEAE

Aulacomnium heterostichum (Hedw.) Bryol. Eur.

Aulacomnium palustre (L.) Schwaeg.

BARTRAMIACEAE

Bartramia pomiformis (L.) Hedw.

Philonotus Muhlenbergii (Schwaegr.) Brid.

POLYTRICHACEAE⁵

* *Catharinaea undulata* (L.) Weber and Mohr.

Catharinaea undulata var. *allegheniensis* Jennings.

Catharinaea angustata Brid.

* *Catharinaea papillosa* Jennings.

Pogonatum brevicaule (Brid.) Beauv.

Polytrichum ohioense R. & C.

Polytrichum juniperinum Willd.

* *Polytrichum strictum* Banks.

Polytrichum commune L.

HEDWIGIACEAE

Hedwigia albicans (Web.) Lindb.

CLIMACEAE

Climacium americanum Brid.

LEUCODONTACEAE

Leucodon brachypus Brid.

Leucodon julaceus (L.) Sull.

ENTODONTACEAE

Entodon cladorrhizans (Hedw.) C. Muell.

Entodon seductrix (Hedw.) C. Muell.

Platygyrium repens (Brid.) Bryol. Eur.

Pylaisia intricata (Hedw.) R. & C. (*P. velutina* B. & S.)

* *Pylaisia Schimperii* Card.

FABRONIACEAE

Anacamptodon splachnoides (Froel.) Brid.

LESKEACEAE

Thelia hirtella (Hedw.) Sull.

Thelia asprella Sull.

Anomodon minor (Beauv.) Fuern.

Anomodon attenuatus (Schreb.) Hueb.

Anomodon rostratus (Hedw.) Schimp.

Leskea obscura Hedw.

Rauia scita (Beauv.) Aust.

⁵ Later records by Professors Linn and Simonton render doubtful their collection of *Polytrichum piliferum* Schreb. in Washington County, as stated in Porter's Catalogue and Jennings' Manual.

Haplocladium virginianum (Brid.) Broth.
Thuidium minutulum (Hedw.) Bryol. Eur.
Thuidium pygmaeum (Sull.) Bryol. Eur.
Thuidium delicatulum (L.) Mitt.
Thuidium recognitum (Hedw.) Lindb.

HYPNACEAE

Amblystegium serpens (L.) Bryol. Eur.
Amblystegium orthocladon (Beauv.) Jaeg.
Amblystegium radicale (Beauv.) Mitten.
* *Amblystegium varium* (Hedw.) Lindb.
* *Amblystegium Kochii* Bryol. Eur.
* *Amblystegium irriguum* (Wils.) Bryol. Eur.
Amblystegium adnatum (Hedw.) Nichols.
Cratoneuron filicinum (L.) Roth.
Campylium hispidulum (Brid.) Mitt.
Campylium chrysophyllum (Brid.) Bryhn.
Ctenidium molluscum (Hedw.) Mitt.
Rhytidiadelphus triquetrus (L.) Warnst.
Hylocomium proliferum (L.) Lindb.
Hylocomium brevirostre (Ehrh.) Bryol. Eur.
Hypnum Schreberi Willd.
Stereodon reptilis (Rich.) Mitt.
Stereodon imponens (Hedw.) Brid.
Stereodon cupressiformis (L.) Brid.
Stereodon curvifolius (Hedw.) Brid.
* *Stereodon arcuatus* (Lindb.) Lindb.
Stereodon recurvans (Rich.) Broth.
Isopterygium deplanatum (Sull.) Mitt.
Plagiothecium denticulatum (L.) Bryol. Eur.

BRACHYTHECIACEAE

Homalotheciella subcapillata (Hedw.) Broth.
Brachythecium acuminatum (Hedw.) Kindb.
Brachythecium oxycladon (Brid.) J. & S. (*Hypnum laetum* Brid.).
Brachythecium salebrosum (Hoffm.) Bryol. Eur.
Brachythecium rutabulum (L.) Bryol. Eur.
Brachythecium Starkei (Brid.) Bryol. Eur.
Brachythecium rivulare (Bruch.) Bryol. Eur.
Curriphyllum Boscii (Schwaegr.) Grout.
Oxyrhynchium rusciforme (Neck.) Warnst.
Eurhynchium hians J. & S.
Rhynchostegium serrulatum (Hedw.) Jaeg.

WASHINGTON AND JEFFERSON COLLEGE,
WASHINGTON, PENNSYLVANIA.